

wherein said ceramic heater is used at a temperature of 100 to 800 °C.

8. (Amended) A ceramic heater according to claim 1,

wherein said ceramic heater is equipped with:

a temperature-measuring element for measuring the temperature of said ceramic substrate;

a control unit for supplying electric power to said resistance heating element composed of a plurality of circuits;

a memory unit for memorizing the data of a temperature measured by said temperature-measuring element; and

an operation unit for calculating electric power required for said resistance heating element from said temperature data measured by said temperature-measuring element,

said ceramic heater being constituted such that respectively different electric powers are supplied to the plurality of circuits of said resistance heating element.

9. (Amended) The ceramic heater according to claim 1,

wherein said ceramic substrate comprises a nitride ceramic or a carbide ceramic.

Please add new Claims 10-15 as follows:

10. (New) The ceramic heater according to claim 5,

wherein said ceramic heater is used at a temperature of 100 to 800 °C.

11. (New) A ceramic heater according to claim 5,

wherein said ceramic heater is equipped with:

a temperature-measuring element for measuring the temperature of said ceramic substrate;

a control unit for supplying electric power to said resistance heating element composed of a plurality of circuits;

a memory unit for memorizing the data of a temperature measured by said temperature-measuring element; and

an operation unit for calculating electric power required for said resistance heating element from said temperature data measured by said temperature-measuring element,

said ceramic heater being constituted such that respectively different electric powers are supplied to the plurality of circuits of said resistance heating element.

12. (New) The ceramic heater according to claim 5,  
wherein said ceramic substrate comprises a nitride ceramic or a carbide ceramic.

13. (New) The ceramic heater according to claim 6,  
wherein said ceramic heater is used at a temperature of 100 to 800 °C.

14. (New) A ceramic heater according to claim 6,  
wherein said ceramic heater is equipped with:  
a temperature-measuring element for measuring the temperature of said ceramic substrate;

a control unit for supplying electric power to said resistance heating element composed of a plurality of circuits;

a memory unit for memorizing the data of a temperature measured by said temperature-measuring element; and

an operation unit for calculating electric power required for said resistance heating element from said temperature data measured by said temperature-measuring element,

said ceramic heater being constituted such that respectively different electric powers are supplied to the plurality of circuits of said resistance heating element.

15. (New) The ceramic heater according to claim 6,  
wherein said ceramic substrate comprises a nitride ceramic or a carbide ceramic.